	1	Claims
	2	Claim 1. A computer-implemented prescription management
	3	system for use by a prescriber in creating a prescription at
	4	a point of patient care, said prescription being usable by a
	5	pharmacist to dispense drugs, said prescription management
	6	system comprising:
	7	a) electronic posting means to select and capture in said
	8	prescription:
	9	i) a patient identifier;
	10	ii) a prescribed drug;
	11	iii) a dosage for said prescribed drug; and
	12	iv) a patient condition intended by said prescriber to
	13	be treated by said prescribed drug; and
	14	b) a displayable library of prescribable drugs; and
	15	c) displayable patient drug formulary information to
	16 17	indicate to said prescriber-user selected ones of said
H		prescribable drugs included within a drug formulary
:	18	associated with said patient to enable compliance with drug
	19	formulary guidelines at the point-of-care.
	20	
	21	Claim 2. A prescription management system according to
	22	Claim 1 having means to track preferred data usage by a user
	23	and to adapt data displays to favor such preferred usage.
	24	whereby the system learns and adapts to a user's habits.
	25	
\ 3	26	Claim 3. A prescription management system according to
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- Claim 2 wherein at least one said preferred usage data 1 display comprises a personal-preference condition-selection 2 list for each system user. 3 Claim 4. A prescription management system according to 5 Claim 2 wherein at least one said/preferred usage data 6 display comprises a personal-preference drug-selection list 7 8 for each system user. 9 10 11 11 12 13 Claim 5. A prescription management system according to 10 11 Claim 1 further comprising a patient history record displayed online, said patient history record listing electronically available prior prescriptions, said prior prescriptions each including a prescribed drug and a 14 **15** condition treatment objective for each drug prescribed, system-created prescript ons being system-added to said history record. **17** 18 A prescript on management system according to 19 Claim 5 comprising a patient condition list for selection of 20 a patient condition for posting to said prescription, said 21 patient condition Aist comprising patient conditions listed in said patient history record. Claim 7.
  - 25 A prescription management system according to Claim 1 comprésing a source-oriented data-retrieval 26

23

-154subsystem, said data retrieval subsystem accessing at least 1 one data-retrieval networks to supply /an array of up-to-date 2 prescribing information and patient-related data to the 3 point-of-care from remote source databases. 4 5

A prescription management/system according to 6

Claim 7 wherein said data-retrieva subsystem is linked to

the prescription management system to provide allergy and

interaction alerts, formulary changes, new drug approvals,

and to lock out or warn against, the prescribing of

inappropriate or recalled drugs/

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A prescription management system according to Claim 9. Claim 1 wherein said patient history record is dynamically assembled online in response to a user request from multiple source record elements retrieved from multiple heterogenous remote databases.

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Claim 10. A prescription management system according to . 19 Claim 9 implemented on a user interface device configured 20 for networked digital communication with a host computer 21 facility, wherein said/patient history record is retrieved 22 as said record element's from said remote databases by said 23 host computer facility in response to a call from said user 24 device said remote source databases being selected and 25 identified according to said patient's prior geographical 26

- 3 A prescription management system according to
- Claim 5 wherein said patient history record is a virtual 4
- patient record newly assembled online in response to each 5
- user request for said record thereby to be current with 6
- regard to possible rempte updates of said source record 7
- 8 elements.

9

- 10 A prescription management system according to
- Claim 11 wherein said host computer facility logs the time, 11
- date and user calling for said/virtual patient record to 12 . M
- ∰ 13 ⊨ provide an audit trail of access to said patient's record,
  - or a provider's or organization's data. 14

**15** 

- **16** A prescription management system according to
- Claim 11 deployed comprehensively throughout a geographical **17** 
  - area, demographic, company, plan or community group whereby 18
  - all drug prescriptions created in said area are products of 19
  - said system and wherein/all said drug prescriptions are 20
  - posted to source databases accessible to said system whereby 21
  - a complete patient history record of all drug prescriptions 22
  - created for said patient in said geographical area, 23
  - demographic, company, plan or community group can be listed 24
  - in said dynamically assembled virtual patient record. 25

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1 Claim 14. A prescription management system according to

2 Claim 1 wherein said drugs in said drug list are classified

- according to a patient condition for which said drugs have
- 4 efficacy and said prescription management system further
- 5 comprises a patient-condition specification procedure for
- 6 selecting said condition from groups/of possible conditions
- 7 and an onscreen drug selection procedure for selecting said
- 8 prescribed drug from said library listing multiple drugs
- 9 for treating each said patient problem.

11 Claim 15. A prescription management system according to

- 12 Claim 1 wherein said patient drug formulary display means
- 13 comprises a condition-driven formulary drug list, and a
- 14 condition-driven nonformy lary drug list, said drug lists
- being changeable according to the patient selected.

17 Claim 16. A prescription management system according to

- 18 Claim 15 wherein said system provides drug efficacy
- 19 guidelines based on patient information and formulary
- 20 information.
- 22 Claim 17. A prescription management system according to
- 23 claim 3
- 24 wherein said prescriber-user's personal-preference list of
- 25 drugs displayed with formulary drugs indicated.

- arrangement with said drug formular provider to provide 1
- prescription-related benefits to that patient, said drug 2
- formulary list information being dynamically presented to 3
- said prescriber-user in the form of at least one selection 4
- of patient-specific formularies from which a formulary 5
- status indication relevant to a/patient therapy-related 6
- choice made by said prescriber fuser is made. 7

- A prescription markagement system according to 9
- Claim 21 comprising network data communication means to
- update and maintain said multiple available formularies from
- remote source databases of formulary information.

- Claim 23. A prescription management system according to 14
- Claim 1 wherein comprising means to categorize and display 15
- said patient conditions categorized into multiple lists, 16
- said lists being selected from the group consisting of a 17
- personal condition list of conditions encountered by the 18
- prescriber, a historical condition list of conditions 19
- exhibited by the patient, one or more prescriber-customized 20
- condition lists, a body system condition list, conditions 21
- organized according to disease pathology, therapy, personal 22
- 23 knowledge and others.

- 25 A prescription management system according to
- Claim 23 wherein drug selection is condition driven and said 26

25 Claim 28. A prescription management system according to

26 Claim 1 comprising a prescription expiration routine

- 1 including dosing, amount and expiration drug quantifiers and
- 2 system calculation of a relationship between said drug
- quantifiers where said system provides default values for
- 4 unspecified ones of said drug quantifiers in response to
- 5 user selection of one or more of said drug quantifiers and
- 6 optionally patient history information, formulary
- 7 information indicating preferred drug lists for treatment.

- 9 Claim 29. A prescription management system according to
- 10 Claim 2 comprising a patient data access control subsystem
- 11 including data access control specification means enabling a
- 12 patient to authorize a user to access said patient's history
- 13 data and comprising data access control means whereby only
- i4 an authorized user can access said patient's data.

15

- 16 Claim 30. A prescription management system according to
- 17 Claim 29 comprising a patient data access auditor; said
- 18 patient data access auditor generating an access record
- 19 logging information as to the time date and identity of
- 20 entities accessing said patient history data, to provide a
- 21 patient data access audit trail and optionally further
- 22 comprising similar access audit means for generating an
- 23 access record logging similar information regarding access
- 24 to a prescriber or organization's data.

25

26 Claim 31. A prescription management system according to

Claim 1 comprising a patient data access subsystem providing 1

patient-directed control of the flow of their own data. 2

3

- Claim 32. A prescription management/system according to 4
- Claim 31 wherein said patient-directed data-access control 5
- is achieved by centrally inputting to said patient data 6
- access subsystem at a host computer facility, patient-7
- generated record-access specifications determining which 8
- parties can access what data during what period of time. 9

- A prescription management system according to Claim 33.
- Claim 32 wherein said patient-generated record-access
- specifications provide a patient security profile in a pre-
- authorization file said pre-authorization file being used to
- control access to said patient's data.

- Claim 34. A prescription management system according to
- Claim 1 comprising user-related historical records generated 18
- by operation of said system by a prescriber-user, a user 19
- 20 data-access control subsystem including data-access control
- specification means enabling a user to authorize selective 21
- third party access to said user's history data and 22
- comprising data access control means whereby only an 23
- authorized third party can access said user's data and what 24
- data type may be accessed by what organization or provider. 25

- 1 Claim 35. A prescription management system according to
- 2 Claim 20 comprising a user data access/auditor, said user
- 3 data access auditor generating an access record logging
- 4 information as to the time date and identity of third
- 5 parties accessing said user history/data, to provide a user
- 6 data access audit trail.

- 8 Claim 36. A prescription management system according to
- 9 Claim 1 comprising organization generated source data
- 10 retrievable for display in said prescription-management
- 11 system from at least one remote database an organization-
- 12 directed data-access control/subsystem including data-access
- 13 control specification means enabling an organization to
- 14 authorize selective third party access to said organization-
- 15 generated source data and comprising data access control
- 16 means whereby only an authorized third party can access said
- 17 organization-generated/source data.

18

- 19 Claim 37. A prescription management system according to
- 20 Claim 36 comprising an organization data access auditor,
- 21 said organization data access auditor generating an access
- 22 record logging information as to the time date and identity
- 23 of third parties accessing said organization-generated
- 24 source data to provide an organization data access audit
- 25 trail.

Claim 38. A prescription management system according to

Claim 2 comprising newly created prescription evaluation

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Claim 40 whereby a drug can be withdrawn from the market the

same day by making a system entry preventing completion of a

prescription for the withdrawn drug.

-164-Claim 42. A prescription management system according to 1 Claim 40 wherein current users of/a drug or medication can 2 be identified from prescription history records, referencing 3 not only drugs prescribed, but also prescription expiry 4 dates and both the patient and/their doctor are notified of 5 said drug withdrawal optional by for the physician via direct 6 point-to-point electronic ma/il. 7 8 Claim 43. A prescription / management system according to 9 10 11 11 12 13 Claim 1 comprising onscreen electronic mail access to other 10 11 users of said system, said electronic mail capability additionally being linked with said prescription creation function and enabling/a prescriber-user to append an electronic record to/a prescription or prescription-related record. Claim 44. A prescription management system according to

1.4 1.5 1.6 ☐ **1**7

Claim 43 wherein said electronic mail provides a platform 18 for accessing other artifidial intelligence and expert 19 systems and optionally providing linkage for transaction 20 services such as the ordering and reviewing of scheduling 21 and similar administrat ive functions. 22

23

A prescription management system according to 24 Claim 45. 25 Claim 1

comprising a patient-selection subsystem whereby preliminary 26

- 1 selection of groups of patients can be made by providing
- 2 multiple patient lists selected from the group consisting of
- 3 "Today's Patients", "In-Patients", "Out-Patients", "Private
- 4 Patients" and others.

- 6 Claim 46. A prescription management system according to
- 7 Claim 45 wherein said patient lists are system-maintained,
- 8 on an ongoing basis, using the latest data available to the
- 9 system and include intelligent patient selection means
- 10 enabling the user to select a convenient group of patients
- 11 that has a high probability of inculuding the next patient or
- 12 patients to be encountered, thereby speeding access and
- 13 retrieval of a desired patient record.

14

- 15 Claim 47. A prescription management system according to
- 16 Claim 1 comprising onscreen access to drug detail
- information as to indications, interactions, side effects
- 18 and precautions.

19

- 20 Claim 48. A prescription management system according to
- 21 Claim 1 comprising a drug literature-retrieval subsystem to
- 22 retrieve drug -related /information across a network from a
- 23 remote heterogenous database for display to said user in
- 24 real time.

25

26 Claim 49. A prescription management system according to

- 1 Claim 48 wherein said drug literature-retrieval subsystem
- 2 provides the user with an access point to full disclosure
- and prescribing information on a selected drug and wherein
- 4 available said drug information is selected from the group
- 5 consisting of drug-treatment guidelines, one or more
- 6 literature references supporting said guidelines, details of
- 7 the particular conditions for which/a system-suggested
- 8 alternative drug has been found effective, adverse
- 9 conditions, preferred dosages and administration routes,
- 10 literature sources and other rejevant drug-prescribing
- 11 information.
- 13 Claim 50. A prescription management system according to
- 14 Claim 49 wherein said drug/literature-retrieval subsystem is
- operative to enable a physician, to have a hard or printed
- 16 copy, or other media form of relevant studies or literature
- 17 sent to them by onscreen selection, said onscreen selection
- 18 being system-communicated to a source for said study or
- 19 literature information.
- 21 Claim 51. A prescription management system according to
- 22 Claim 49 wherein said drug literature-retrieval subsystem is
- 23 operative to provide a simple nonintrusive technique for
- 24 bringing new drug information to physicians at a point of
- 25 care when creating a prescription.

similarly treated patients for significance.

26

1	Claim 55. A prescription management system according to
2	Claim 1 wherein said condition list comprises at least five
3	conditions, and said drug list comprises at least five
4	drugs.
5	
6	Claim 56. A prescription management system according to
7	Claim 1 wherein said drug information comprises associated
8	condition information and dosage information for at least
9	about fifty percent of all prescribable FDA-approved drugs.
<u> </u>	
11 - - 12	Claim 57. A prescription management system according to
⊨ 12 ①	Claim 1 comprising means to output a newly created
13 13	electronic prescription in any desired form such as to
<sub>.</sub> 14	print, to local or remote storage or to remote file transfer
<u> </u>	as an electronic prescription.
<b>16</b>	
□ □ 17	Claim 58. A prescription management system according to
18	Claim 1 comprising means for transmitting said electronic
19	prescription across a network for fulfillment by a specified
20	pharmacy.
21	
22	Claim 59. A prescription management system according to
23	Claim 57 comprising a printed dosage schedule output for
24	said patient
25	
26	Claim 60. A prescription management system according to
	/

- Claim 1 wherein multiple physicians accessed by a patient 1 utilize the system described herein, with common online 2
- access to, and assembly of, a patient's prescription history 3
- record whereby that record provides a/current record of new 4
- prescriptions, then a common abuse can be controlled wherein 5
- a patient presents a problem or condition to more than one 6
- physician to obtain multiple prescriptions with a view to 7
- indulging in abusive ingestion or illicit resale. 8

- **=** 10 A prescription management system according to **€**11 Claim 1 wherein the system also provides, for example in the **=** 12 patient's history record, notification from a pharmacy, or from a drug benefit plan linked to the pharmacy, of **13** fulfillment of a prescription, and that information is <sub>a</sub> 14 available to the prescriber, for example from the patients' **15**
- history record, another common abuse wherein a patient \_16
- pleads loss of a prescription to obtain a duplicate, can **\_17** 
  - 18 also be prevented.

- Claim 62. A prescription management system according to 20
- Claim 1 wherein the system also provides, for example in the 21
- patient's history record, notification from a pharmacy, or 22
- from a drug benefit plan linked to the pharmacy, of 23
- fulfillment of a prescription, and that information is 24
- available to the prescriber, for example from the patients' 25
- history record, wherein a patient's failure to have a 26

1	prescription fulfilled indicating discontinuance of the
2	prescribed therapy can be monitored and possibly corrected.
3	
4	Claim 63. A prescription produced by the system of claim 1
5	output in a form selected from the group consisting of
6	electronic, paper, digitized voice and fax.
7	
8	Claim 64. A prescription management system for electronic
9	prescription creation by a prescriper at a point of patient
10	care, said prescription being usable by a pharmacist to
回 10 回 11 三 12 四 12	dispense drugs, said prescription management system
12	comprising electronic posting means to select and capture in
13	said prescription:
14	i) a patient identifie;
<b>15</b>	ii) a prescribed drug;
교 즐 16	iii) a dosage for said prescribed drug; and
<u> </u>	iv) a patient condition intended by said prescriber to
18	be mitigated by said prescribed drug.
19	
20	Claim 65. A prescript on management system according to
21	Claim 64 further comprising an onscreen drug selection
22	procedure having a patient condition list specifying
23	multiple possible patient conditions, having a drug list
24	specifying multiple possible prescribable drugs and having
25	drug specification means to select and post a desired drug
26	to said prescription:

1	wherein drugs in said drug list are classified according to
2	a patient condition for which said drugs have efficacy and
3	said onscreen drug selection procedure lists multiple drugs
4	for treating each said patient problem
5	
6	Claim 66. A prescription management system according to
7	Claim 64 comprising drug formulary information being a
8	selected list of drugs being preferred for prescribing by a
9	drug benefit provider to said patent.
10	
11	Claim 67. In combination, a host computer facility and a
12	prescription management system according to claim 64
1,3	implemented on said host computer facility said host
14	computer facility supporting network delivery of user-
15	relevant components of said prescription management system
16	to multiple remote user inverface devices and providing data
17	and communications resourdes for users to draw upon
18	employing said interface devices.
19	
20	Claim 68. A combination according to claim 67 wherein said
21	host computer facility can communicate with multiple
22	heterogenous remote databases to retrieve complementary data
23	elements from said databases and comprises:
24	i) a dynamic record assembly procedure for online assembly
25	of a data record from said complementary data elements;
26	and

	1	ii) a user-device communication procedure to deliver said
	2	dynamically assembled record to a calling user-
	3	interface device as an integral data component of said
	4	prescription management system.
	5	
	6	Claim 69. A professional product specification system for
	7	electronically creating a technical specification usable by
	8	a professional to specify technical products said product
	9	specification system comprising
	10	a) electronic posting means to select and capture in said
J	11	prescription:
	12	i) a customer identifer;
	1,3	ii) a specified product; and
	14	iii) product specifications; and
	15	b) an onscreen product selection procedure having a
L	16 17	product benefit list specifying multiple possible
	17	customer benefits having a product list specifying
	18	multiple possible specifiable products and having
	19	product specification means to select and post a
	20	desired product to said specification;
	21	wherein products in said product list are classified
	22	according to a customer-useful technical purpose attainable
	23	with said products and said onscreen product selection
:	24	procedure lists multiple products for providing each said
:	25	customer benefit
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